

Paul W Bohn

List of Publications by Year in descending order

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143
papers

11,837
citations

70961

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h-index

27345

106
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149
all docs

149
docs citations

149
times ranked

14171
citing authors

#	ARTICLE	IF	CITATIONS
1	Potential dependent spectroelectrochemistry of electrofluorogenic dyes on indium oxide. <i>Electrochemical Science Advances</i> , 2022, 2, e2100094.	1.2	5
2	Spatiotemporal distribution of chemical signatures exhibited by <i>Myxococcus xanthus</i> in response to metabolic conditions. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 1691-1698.	1.9	0
3	Coupling of 3D Porous Hosts for Li Metal Battery Anodes with Viscous Polymer Electrolytes. <i>Journal of the Electrochemical Society</i> , 2022, 169, 010511.	1.3	2
4	Real-time image denoising of mixed Poisson-Gaussian noise in fluorescence microscopy images using ImageJ. <i>Optica</i> , 2022, 9, 335.	4.8	27
5	Electrochemical Zero-Mode Waveguide Potential-Dependent Fluorescence of Glutathione Reductase at Single-Molecule Occupancy. <i>Analytical Chemistry</i> , 2022, 94, 3970-3977.	3.2	8
6	Potential-induced wetting and dewetting in hydrophobic nanochannels for mass transport control. <i>Current Opinion in Electrochemistry</i> , 2022, 34, 100980.	2.5	2
7	Redox cycling-based detection of phenazine metabolites secreted from <i>Pseudomonas aeruginosa</i> in nanopore electrode arrays. <i>Analyst</i> , 2021, 146, 1346-1354.	1.7	10
8	Biopolymer Patterning-Directed Secretion in Mucoid and Nonmucoid Strains of <i>Pseudomonas aeruginosa</i> Revealed by Multimodal Chemical Imaging. <i>ACS Infectious Diseases</i> , 2021, 7, 598-607.	1.8	4
9	Depth distributions of signaling molecules in <i>Pseudomonas aeruginosa</i> biofilms mapped by confocal Raman microscopy. <i>Journal of Chemical Physics</i> , 2021, 154, 204201.	1.2	3
10	Electrochemical Immunosensing of Interleukin-6 in Human Cerebrospinal Fluid and Human Serum as an Early Biomarker for Traumatic Brain Injury. <i>ACS Measurement Science Au</i> , 2021, 1, 65-73.	1.9	17
11	Actively Controllable Solid-Phase Microextraction in a Hierarchically Organized Block Copolymer-Nanopore Electrode Array Sensor for Charge-Selective Detection of Bacterial Metabolites. <i>Analytical Chemistry</i> , 2021, 93, 14481-14488.	3.2	5
12	Potential-induced wetting and dewetting in pH-responsive block copolymer membranes for mass transport control. <i>Faraday Discussions</i> , 2021, 233, 283-294.	1.6	2
13	Electrochemical and spectroelectrochemical characterization of bacteria and bacterial systems. <i>Analyst</i> , 2021, 147, 22-34.	1.7	10
14	Silver Nanofilament Formation Dynamics in a Polymer-Ionic Liquid Thin Film by Direct Write. <i>Advanced Functional Materials</i> , 2020, 30, 1907950.	7.8	4
15	Ion Gating in Nanopore Electrode Arrays with Hierarchically Organized pH-Responsive Block Copolymer Membranes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 55116-55124.	4.0	20
16	Spatiotemporal Distribution of <i>Pseudomonas aeruginosa</i> Alkyl Quinolones under Metabolic and Competitive Stress. <i>MSphere</i> , 2020, 5, .	1.3	14
17	Acid-base chemistry at the single ion limit. <i>Chemical Science</i> , 2020, 11, 10951-10958.	3.7	9
18	Single Entity Electrochemistry in Nanopore Electrode Arrays: Ion Transport Meets Electron Transfer in Confined Geometries. <i>Accounts of Chemical Research</i> , 2020, 53, 719-728.	7.6	50

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19	Electrowetting-Mediated Transport to Produce Electrochemical Transistor Action in Nanopore Electrode Arrays. <i>Small</i> , 2020, 16, e1907249.	5.2	8
20	Microscale and Nanoscale Electrophotonic Diagnostic Devices. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2019, 9, a034249.	2.9	2
21	Emerging Directions in Electroanalysis. <i>Journal of Analysis and Testing</i> , 2019, 3, 123-124.	2.5	0
22	Tunable optical metamaterial-based sensors enabled by closed bipolar electrochemistry. <i>Analyst</i> , The, 2019, 144, 6240-6246.	1.7	8
23	Whole-cell biosensing by siderophore-based molecular recognition and localized surface plasmon resonance. <i>Analytical Methods</i> , 2019, 11, 296-302.	1.3	18
24	Detection of 1 [−] zmol injection of angiotensin using capillary zone electrophoresis coupled to a Q-Exactive HF mass spectrometer with an electrokinetically pumped sheath-flow electrospray interface. <i>Talanta</i> , 2019, 204, 70-73.	2.9	26
25	Electrochemical Surface-Enhanced Raman Spectroscopy of Pyocyanin Secreted by <i>Pseudomonas aeruginosa</i> Communities. <i>Langmuir</i> , 2019, 35, 7043-7049.	1.6	24
26	Nanopore-Templated Silver Nanoparticle Arrays Photopolymerized in Zero-Mode Waveguides. <i>Frontiers in Chemistry</i> , 2019, 7, 216.	1.8	4
27	Capture of Single Silver Nanoparticles in Nanopore Arrays Detected by Simultaneous Amperometry and Surface-Enhanced Raman Scattering. <i>Analytical Chemistry</i> , 2019, 91, 4568-4576.	3.2	16
28	Spatiotemporal dynamics of molecular messaging in bacterial co-cultures studied by multimodal chemical imaging. , 2019, 10863, .		5
29	(Invited) Closed Bipolar Electrochemistry with Multiplex Optical Readout for Rapid Diagnostics of Sepsis Syndrome Biomarkers. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
30	Zero-mode waveguide nanophotonic structures for single molecule characterization. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 193001.	1.3	22
31	Quantitative SIMS Imaging of Agar-Based Microbial Communities. <i>Analytical Chemistry</i> , 2018, 90, 5654-5663.	3.2	30
32	Voltage-Gated Nanoparticle Transport and Collisions in Attoliter-Volume Nanopore Electrode Arrays. <i>Small</i> , 2018, 14, e1703248.	5.2	17
33	Nanopore Electrochemistry: A Nexus for Molecular Control of Electron Transfer Reactions. <i>ACS Central Science</i> , 2018, 4, 20-29.	5.3	48
34	Whole-Cell <i>Pseudomonas aeruginosa</i> Localized Surface Plasmon Resonance Aptasensor. <i>Analytical Chemistry</i> , 2018, 90, 2326-2332.	3.2	59
35	In Situ Probing of Laser Annealing of Plasmonic Substrates with Surface-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2018, 122, 11031-11037.	1.5	7
36	Spatially dependent alkyl quinolone signaling responses to antibiotics in <i>Pseudomonas aeruginosa</i> swarms. <i>Journal of Biological Chemistry</i> , 2018, 293, 9544-9552.	1.6	33

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37	Electrochemical Zero-Mode Waveguide Studies of Single Enzyme Reactions. , 2018, 2018, .		0
38	Surface-Growing Communities of <i>Pseudomonas aeruginosa</i> Exhibit Distinct Alkyl Quinolone Signatures. <i>Microbiology Insights</i> , 2018, 11, 117863611881773.	0.9	7
39	Redox Cycling in Individually Encapsulated Attoliter-Volume Nanopores. <i>ACS Nano</i> , 2018, 12, 12923-12931.	7.3	13
40	Processes at nanopores and bio-nanointerfaces: general discussion. <i>Faraday Discussions</i> , 2018, 210, 145-171.	1.6	3
41	Asymmetric Nafion-Coated Nanopore Electrode Arrays as Redox-Cycling-Based Electrochemical Diodes. <i>ACS Nano</i> , 2018, 12, 9177-9185.	7.3	24
42	Science and technology of electrochemistry at nano-interfaces: concluding remarks. <i>Faraday Discussions</i> , 2018, 210, 481-493.	1.6	5
43	Direct-Write Formation and Dissolution of Silver Nanofilaments in Ionic Liquid-Polymer Electrolyte Composites. <i>Small</i> , 2018, 14, 1802023.	5.2	4
44	Nanopore-Organized Nanoparticle Arrays for Tunable Optical Materials Using Nanobioplar Electrodeposition. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
45	Spatial Mapping of Pyocyanin in <i>Pseudomonas Aeruginosa</i> Bacterial Communities Using Surface Enhanced Raman Scattering. <i>Applied Spectroscopy</i> , 2017, 71, 215-223.	1.2	34
46	Optical Biosensing of Bacteria and Bacterial Communities. <i>Journal of Analysis and Testing</i> , 2017, 1, 1.	2.5	21
47	Addressable Direct-Write Nanoscale Filament Formation and Dissolution by Nanoparticle-Mediated Bipolar Electrochemistry. <i>ACS Nano</i> , 2017, 11, 4976-4984.	7.3	20
48	Single-molecule spectroelectrochemical cross-correlation during redox cycling in recessed dual ring electrode zero-mode waveguides. <i>Chemical Science</i> , 2017, 8, 5345-5355.	3.7	36
49	Ion selective redox cycling in zero-dimensional nanopore electrode arrays at low ionic strength. <i>Nanoscale</i> , 2017, 9, 5164-5171.	2.8	26
50	Electrochromic Sensor for Multiplex Detection of Metabolites Enabled by Closed Bipolar Electrode Coupling. <i>ACS Sensors</i> , 2017, 2, 1020-1026.	4.0	59
51	Nanochannel Arrays for Molecular Sieving and Electrochemical Analysis by Nanosphere Lithography Templated Graphoepitaxy of Block Copolymers. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 24908-24916.	4.0	17
52	A Carotenoid-Deficient Mutant in <i>Pantoea</i> sp. YR343, a Bacteria Isolated from the Rhizosphere of <i>Populus deltoides</i> , Is Defective in Root Colonization. <i>Frontiers in Microbiology</i> , 2016, 7, 491.	1.5	48
53	Coupling of Independent Electrochemical Reactions and Fluorescence at Closed Bipolar Interdigitated Electrode Arrays. <i>ChemElectroChem</i> , 2016, 3, 422-428.	1.7	36
54	Label-free molecular imaging of bacterial communities of the opportunistic pathogen <i>Pseudomonas aeruginosa</i> . , 2016, 9930, .		12

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55	From single cells to single molecules: general discussion. <i>Faraday Discussions</i> , 2016, 193, 141-170.	1.6	4
56	Metal-assisted polyatomic SIMS and laser desorption/ionization for enhanced small molecule imaging of bacterial biofilms. <i>Biointerphases</i> , 2016, 11, 02A325.	0.6	21
57	Microchannel Voltammetry in the Presence of Large External Voltages and Electric Fields. <i>Analytical Chemistry</i> , 2016, 88, 4200-4204.	3.2	2
58	Electrochemistry at single molecule occupancy in nanopore-confined recessed ring-disk electrode arrays. <i>Faraday Discussions</i> , 2016, 193, 51-64.	1.6	29
59	Closed bipolar electrode-enabled dual-cell electrochromic detectors for chemical sensing. <i>Analyst, The</i> , 2016, 141, 6018-6024.	1.7	31
60	Redox Cycling in Nanopore-Confined Recessed Dual-Ring Electrode Arrays. <i>Journal of Physical Chemistry C</i> , 2016, 120, 20634-20641.	1.5	30
61	Effects of molecular confinement and crowding on horseradish peroxidase kinetics using a nanofluidic gradient mixer. <i>Lab on A Chip</i> , 2016, 16, 877-883.	3.1	5
62	Ion Accumulation and Migration Effects on Redox Cycling in Nanopore Electrode Arrays at Low Ionic Strength. <i>ACS Nano</i> , 2016, 10, 3658-3664.	7.3	47
63	Raman chemical imaging of the rhizosphere bacterium <i>Pantoea</i> sp. YR343 and its co-culture with <i>Arabidopsis thaliana</i> . <i>Analyst, The</i> , 2016, 141, 2175-2182.	1.7	30
64	Nanopore-enabled electrode arrays and ensembles. <i>Mikrochimica Acta</i> , 2016, 183, 1019-1032.	2.5	18
65	Single occupancy spectroelectrochemistry of freely diffusing flavin mononucleotide in zero-dimensional nanophotonic structures. <i>Faraday Discussions</i> , 2015, 184, 101-115.	1.6	41
66	Self-induced redox cycling coupled luminescence on nanopore recessed disk-multiscale bipolar electrodes. <i>Chemical Science</i> , 2015, 6, 3173-3179.	3.7	36
67	On-demand in situ generation of oxygen in a nanofluidic embedded planar microband electrochemical reactor. <i>Microfluidics and Nanofluidics</i> , 2015, 19, 1181-1189.	1.0	10
68	Using Raman spectroscopy and SERS for in situ studies of rhizosphere bacteria. , 2015, 9550, .		1
69	Multimodal chemical imaging of molecular messengers in emerging <i>Pseudomonas aeruginosa</i> bacterial communities. <i>Analyst, The</i> , 2015, 140, 6544-6552.	1.7	58
70	Electric field effects on current-voltage relationships in microfluidic channels presenting multiple working electrodes in the weak-coupling limit. <i>Microfluidics and Nanofluidics</i> , 2015, 18, 131-140.	1.0	9
71	Tunable electrochemical pH modulation in a microchannel monitored via the proton-coupled electro-oxidation of hydroquinone. <i>Biomicrofluidics</i> , 2014, 8, 044120.	1.2	15
72	Coupled Electrokinetic Transport and Electron Transfer at Annular Nanoband Electrodes Embedded in Cylindrical Nanopores. <i>ChemElectroChem</i> , 2014, 1, 1570-1576.	1.7	9

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73	Correlated Imaging with C ₆₀ -SIMS and Confocal Raman Microscopy: Visualization of Cell-Scale Molecular Distributions in Bacterial Biofilms. <i>Analytical Chemistry</i> , 2014, 86, 10885-10891.	3.2	58
74	Correlated mass spectrometry imaging and confocal Raman microscopy for studies of three-dimensional cell culture sections. <i>Analyst, The</i> , 2014, 139, 4578.	1.7	61
75	Spatial organization of <i>Pseudomonas aeruginosa</i> biofilms probed by combined matrix-assisted laser desorption ionization mass spectrometry and confocal Raman microscopy. <i>Analyst, The</i> , 2014, 139, 5700-5708.	1.7	42
76	Potential-Dependent Restructuring and Chemical Noise at Au-Ag-Au Atomic Scale Junctions. <i>ACS Nano</i> , 2014, 8, 1718-1727.	7.3	4
77	Redox Cycling on Recessed Ring-Disk Nanoelectrode Arrays in the Absence of Supporting Electrolyte. <i>Journal of the American Chemical Society</i> , 2014, 136, 7225-7228.	6.6	52
78	MALDI-guided SIMS: Multiscale Imaging of Metabolites in Bacterial Biofilms. <i>Analytical Chemistry</i> , 2014, 86, 9139-9145.	3.2	79
79	Recessed Ring-Disk Nanoelectrode Arrays Integrated in Nanofluidic Structures for Selective Electrochemical Detection. <i>Analytical Chemistry</i> , 2013, 85, 9882-9888.	3.2	49
80	Potential-dependent single molecule blinking dynamics for flavin adenine dinucleotide covalently immobilized in zero-mode waveguide array of working electrodes. <i>Faraday Discussions</i> , 2013, 164, 57.	1.6	39
81	Nanofluidics: Convective Delivery of Electroactive Species to Annular Nanoband Electrodes Embedded in Nanocapillary-Array Membranes (<i>Small</i> 1/2013). <i>Small</i> , 2013, 9, 164-164.	5.2	0
82	Correlated imaging – a grand challenge in chemical analysis. <i>Analyst, The</i> , 2013, 138, 1924.	1.7	56
83	Redox Cycling in Nanoscale-Recessed Ring-Disk Electrode Arrays for Enhanced Electrochemical Sensitivity. <i>ACS Nano</i> , 2013, 7, 5483-5490.	7.3	99
84	Chemical Noise Produced by Equilibrium Adsorption/Desorption of Surface Pyridine at Au-Ag-Au Bimetallic Atom-Scale Junctions Studied by Fluctuation Spectroscopy. <i>Journal of the American Chemical Society</i> , 2013, 135, 4522-4528.	6.6	12
85	Convective Delivery of Electroactive Species to Annular Nanoband Electrodes Embedded in Nanocapillary-Array Membranes. <i>Small</i> , 2013, 9, 90-97.	5.2	13
86	Non-aqueous microchip electrophoresis for characterization of lipid biomarkers. <i>Interface Focus</i> , 2013, 3, 20120096.	1.5	12
87	Catalyst and processing effects on metal-assisted chemical etching for the production of highly porous GaN. <i>Semiconductor Science and Technology</i> , 2013, 28, 065001.	1.0	21
88	Ionic transport in nanocapillary membrane systems. , 2012, , 17-31.		0
89	Single-Molecule Enzyme Dynamics of Monomeric Sarcosine Oxidase in a Gold-Based Zero-Mode Waveguide. <i>Applied Spectroscopy</i> , 2012, 66, 163-169.	1.2	24
90	Monodisperse GaN nanowires prepared by metal-assisted chemical etching with in situ catalyst deposition. <i>Electrochemistry Communications</i> , 2012, 19, 39-42.	2.3	42

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91	Enhanced Mass Transport of Electroactive Species to Annular Nanoband Electrodes Embedded in Nanocapillary Array Membranes. <i>Journal of the American Chemical Society</i> , 2012, 134, 8617-8624.	6.6	46
92	Nanoporous Ag-GaN thin films prepared by metal-assisted electroless etching and deposition as three-dimensional substrates for surface-enhanced Raman scattering. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 1347-1353.	1.2	16
93	Conductance-Based Chemical Sensing in Metallic Nanowires and Metal-Semiconductor Nanostructures. <i>Analytical Chemistry</i> , 2012, 84, 2-8.	3.2	17
94	Ionic transport in nanocapillary membrane systems. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	19
95	Fabrication of antireflective layers on silicon using metal-assisted chemical etching with in situ deposition of silver nanoparticle catalysts. <i>Solar Energy Materials and Solar Cells</i> , 2012, 103, 98-107.	3.0	52
96	Robust Au-Ag-Au Bimetallic Atom-Scale Junctions Fabricated by Self-Limited Ag Electrodeposition at Au Nanogaps. <i>ACS Nano</i> , 2011, 5, 8434-8441.	7.3	7
97	Electrolysis in nanochannels for in situ reagent generation in confined geometries. <i>Lab on A Chip</i> , 2011, 11, 3634.	3.1	30
98	Metal-Assisted Chemical Etching Using Tollen's Reagent to Deposit Silver Nanoparticle Catalysts for Fabrication of Quasi-ordered Silicon Micro/Nanostructures. <i>Journal of Electronic Materials</i> , 2011, 40, 2480-2485.	1.0	35
99	Effect of Molecular Adsorption on the Electrical Conductance of Single Au Nanowires Fabricated by Electron-Beam Lithography and Focused Ion Beam Etching. <i>Small</i> , 2010, 6, 2598-2603.	5.2	34
100	Electrochemical Control of Stability and Restructuring Dynamics in Au-Ag-Au and Au-Cu-Au Bimetallic Atom-Scale Junctions. <i>ACS Nano</i> , 2010, 4, 2946-2954.	7.3	16
101	Spatial Correlation of Confocal Raman Scattering and Secondary Ion Mass Spectrometric Molecular Images of Lignocellulosic Materials. <i>Analytical Chemistry</i> , 2010, 82, 2608-2611.	3.2	41
102	Nanofluidics in chemical analysis. <i>Chemical Society Reviews</i> , 2010, 39, 1060-1072.	18.7	168
103	Electrokinetic control of fluid transport in gold-coated nanocapillary array membranes in hybrid nanofluidic-microfluidic devices. <i>Lab on A Chip</i> , 2010, 10, 1237.	3.1	18
104	High sensitivity hydrogen sensing with Pt-decorated porous gallium nitride prepared by metal-assisted electroless etching. <i>Analyst</i> , The, 2010, 135, 902.	1.7	27
105	Nanoscale Control and Manipulation of Molecular Transport in Chemical Analysis. <i>Annual Review of Analytical Chemistry</i> , 2009, 2, 279-296.	2.8	60
106	Enzymatic activity of surface-immobilized horseradish peroxidase confined to micrometer- to nanometer-scale structures in nanocapillary array membranes. <i>Analyst</i> , The, 2009, 134, 851.	1.7	18
107	Science and technology for water purification in the coming decades. , 2009, , 337-346.		110
108	Fluidic communication between multiple vertically segregated microfluidic channels connected by nanocapillary array membranes. <i>Electrophoresis</i> , 2008, 29, 1237-1244.	1.3	15

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109	Science and technology for water purification in the coming decades. <i>Nature</i> , 2008, 452, 301-310.	13.7	6,795
110	Electrokinetically driven fluidic transport in integrated three-dimensional microfluidic devices incorporating gold-coated nanocapillary array membranes. <i>Lab on A Chip</i> , 2008, 8, 1625.	3.1	19
111	Nanofluidics: Systems and Applications. <i>IEEE Sensors Journal</i> , 2008, 8, 441-450.	2.4	93
112	Perturbation of Microfluidic Transport Following Electrokinetic Injection through a Nanocapillary Array Membrane: Injection and Biphasic Recovery. <i>Journal of Physical Chemistry C</i> , 2008, 112, 19242-19247.	1.5	6
113	Stable Atom-Scale Junctions on Silicon Fabricated by Kinetically Controlled Electrochemical Deposition and Dissolution. <i>ACS Nano</i> , 2008, 2, 1581-1588.	7.3	14
114	Functional-DNA-Based Nanoscale Materials and Devices for Sensing Trace Contaminants in Water. <i>MRS Bulletin</i> , 2008, 33, 34-41.	1.7	16
115	Temperature-Controlled Flow Switching in Nanocapillary Array Membranes Mediated by Poly(N-isopropylacrylamide) Polymer Brushes Grafted by Atom Transfer Radical Polymerization. <i>Langmuir</i> , 2007, 23, 305-311.	1.6	157
116	Induced Electrokinetic Transport in Microfluidic Interconnect Devices. <i>Langmuir</i> , 2007, 23, 13209-13222.	1.6	89
117	Surface Immobilization of Catalytic Beacons Based on Ratiometric Fluorescent DNAzyme Sensors: A Systematic Study. <i>Langmuir</i> , 2007, 23, 9513-9521.	1.6	42
118	Incorporation of a DNAzyme into Au-coated nanocapillary array membranes with an internal standard for Pb(ii) sensing. <i>Analyst</i> , 2006, 131, 41-47.	1.7	65
119	Modeling and Simulation of Ionic Currents in Three-Dimensional Microfluidic Devices with Nanofluidic Interconnects. <i>Journal of Nanoparticle Research</i> , 2005, 7, 507-516.	0.8	54
120	Voltage-Tunable Volume Transitions in Nanoscale Films of Poly(hydroxyethyl methacrylate) Surfaces Grafted onto Gold. <i>Langmuir</i> , 2005, 21, 1979-1985.	1.6	33
121	Miniaturized Lead Sensor Based on Lead-Specific DNAzyme in a Nanocapillary Interconnected Microfluidic Device. <i>Environmental Science & Technology</i> , 2005, 39, 3756-3761.	4.6	123
122	Profiling pH Gradients Across Nanocapillary Array Membranes Connecting Microfluidic Channels. <i>Journal of the American Chemical Society</i> , 2005, 127, 13928-13933.	6.6	48
123	Interfacial Scattering at Electrochemically Fabricated Atom-Scale Junctions between Thin Gold Film Electrodes in a Microfluidic Channel. <i>Analytical Chemistry</i> , 2005, 77, 243-249.	3.2	23
124	Immobilization of a Catalytic DNA Molecular Beacon on Au for Pb(II) Detection. <i>Analytical Chemistry</i> , 2005, 77, 442-448.	3.2	119
125	Nanocapillary Arrays Effect Mixing and Reaction in Multilayer Fluidic Structures. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 1862-1865.	7.2	42
126	Microfluidic Separation and Gateable Fraction Collection for Mass-Limited Samples. <i>Analytical Chemistry</i> , 2004, 76, 6419-6425.	3.2	63

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127	Surface Adsorption and Transfer of Organomeraptans to Colloidal Gold and Direct Identification by Matrix Assisted Laser Desorption/Ionization Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2004, 126, 5920-5926.	6.6	50
128	Direct-write patterning of microstructured porous silicon arrays by focused-ion-beam Pt deposition and metal-assisted electroless etching. <i>Journal of Applied Physics</i> , 2004, 96, 6888-6894.	1.1	69
129	Structural and spectroscopic characterization of porous silicon carbide formed by Pt-assisted electroless chemical etching. <i>Solid State Communications</i> , 2003, 126, 245-250.	0.9	65
130	Hybrid three-dimensional nanofluidic/microfluidic devices using molecular gates. <i>Sensors and Actuators A: Physical</i> , 2003, 102, 223-233.	2.0	105
131	Nanocapillary Array Interconnects for Gated Analyte Injections and Electrophoretic Separations in Multilayer Microfluidic Architectures. <i>Analytical Chemistry</i> , 2003, 75, 2224-2230.	3.2	101
132	Gateable Nanofluidic Interconnects for Multilayered Microfluidic Separation Systems. <i>Analytical Chemistry</i> , 2003, 75, 1861-1867.	3.2	204
133	Morphology evolution and luminescence properties of porous GaN generated via Pt-assisted electroless etching of hydride vapor phase epitaxy GaN on sapphire. <i>Journal of Applied Physics</i> , 2003, 94, 7526.	1.1	44
134	In-plane control of morphology and tunable photoluminescence in porous silicon produced by metal-assisted electroless chemical etching. <i>Journal of Applied Physics</i> , 2002, 91, 6134-6140.	1.1	164
135	In-plane bandgap control in porous GaN through electroless wet chemical etching. <i>Applied Physics Letters</i> , 2002, 80, 980-982.	1.5	102
136	Manipulating Molecular Transport through Nanoporous Membranes by Control of Electrokinetic Flow: A Effect of Surface Charge Density and Debye Length. <i>Langmuir</i> , 2001, 17, 6298-6303.	1.6	132
137	Direct assay of <i>Aplysia</i> tissues and cells with laser desorption/ionization mass spectrometry on porous silicon. <i>Journal of Mass Spectrometry</i> , 2001, 36, 1317-1322.	0.7	73
138	Chemisorption and Chemical Reaction Effects on the Resistivity of Ultrathin Gold Films at the Liquid-Solid Interface. <i>Analytical Chemistry</i> , 1999, 71, 119-125.	3.2	55
139	Near-field photoluminescence of microcrystalline arsenic oxides produced in anodically processed gallium arsenide. <i>Applied Physics Letters</i> , 1999, 74, 1096-1098.	1.5	21
140	In-Plane Resistivity of Ultrathin Gold Films: A High Sensitivity, Molecularly Differentiated Probe of Mercaptan Chemisorption at the Liquid-Metal Interface. <i>Journal of the American Chemical Society</i> , 1998, 120, 9969-9970.	6.6	51
141	LOCALIZED OPTICAL PHENOMENA AND THE CHARACTERIZATION OF MATERIALS INTERFACES. <i>Annual Review of Materials Research</i> , 1997, 27, 469-498.	5.5	20
142	Optical determination of surface density in oriented metalloprotein nanostructures. <i>Analytical Chemistry</i> , 1993, 65, 1635-1638.	3.2	35
143	Genetic engineering of surface attachment sites yields oriented protein monolayers. <i>Journal of the American Chemical Society</i> , 1992, 114, 9298-9299.	6.6	70